

BIOLOGICAL CHEMISTRY PROGRAM (BCP)

Major and Distributed Minor (Graded courses)*	Introduction to Research (Rotations)	Total Graded
Core courses in Biochemistry: BIOC 565 Proteins and Enzymes 3 units BIOC 568 Nucleic Acids, Metabolism, and Signaling 4 units	BIOC 795a Introduction to Research	
Core courses in Chemistry or Medicinal Chemistry: Choose one from: CHEM 510/523A/527/550/580 or PHSC 670 3-4 units		
Additional upper level coursework: at least 4-5 units		
Major and Distributed Minor Courses Total (minimum): 15 units	6 units	Graded Courses Total (minimum): 21 units

*Note that it is possible to do a Minor from another department. In such case, that department's requirements for the minor must be followed. Typically, this involves a minimum of 9 units (graded) from that department.

Other Courses Required

Journal Club	Group Meeting	Seminar	Other	Total units
BIOC 595b BCP journal club 1 credit/semester	BIOC 696a 1 credit/semester (After joining a research group)	BIOC 696d 1 credit/semester	595c College Teaching (Fall I and Spring I), 2 credits	
Maximum counted toward degree: 10	Maximum counted toward degree: 10	Maximum counted toward degree: 10	Maximum counted toward degree: 2	Ungraded total: 24

BIOLOGICAL PHYSICS PROGRAM (BPP)

The Biological Physics Program (BPP) is a multidisciplinary graduate training program that can be joined as a track through three departments: Biochemistry & Molecular Biophysics, Chemistry, or Physics. The course background for BPP students is expected to include a year of introductory Physics, Biochemistry, and a year of Physical Chemistry or equivalent upper division Physics. Additional admission requirements correspond to the home department. The degree is granted in Home Department with a focus in Biological Physics.

Major and Distributed Minor (Graded courses)*	Introduction to Research (Rotations)	Total Graded
Core courses in Biochemistry: BIOC 565 Proteins and Enzymes 3 units BIOC 585A & B Biological Structure 4 units	BIOC 795a Introduction to Research	
Core courses in Physics: PHYS 530 Intro to Biophysics 3 units PHYS 5313 Molecular Biophysics 3 units		
Core courses in Chemistry: CHEM 580 Introduction to Quantum Chemistry 3 units CHEM 582 Statistical Thermodynamics 3 units		
Major and Distributed Minor Courses Total (minimum): 19 units	6 units	Graded Courses Total (minimum): 25 units

*Note that it is possible to do a Minor from another department. In such case, that department's requirements for the minor must be followed. Typically, this involves a minimum of 9 units (graded) from that department.

Other Courses Required

Journal Club	Group Meeting	Seminar	Other	Total units
BIOC 595b BCP journal club 1 credit/semester	BIOC 696a 1 credit/semester (After joining a research group)	BIOC 696d 1 credit/semester	595c College Teaching (Fall I and Spring I), 2 credits	
Maximum counted toward degree: 10	Maximum counted toward degree: 10	Maximum counted toward degree: 10	Maximum counted toward degree: 2	Ungraded total: 20

BIOCHEMISTRY TRACK OF BMCB

Major and Distributed Minor (Graded courses)*	Introduction to Research (Rotations)	Total Graded
Core courses in Biochemistry BIOC 565 Proteins and Enzymes 3 units BIOC 568 Nucleic Acids, Metabolism, and Signaling 4 units	BIOC 795a Introduction to Research	
Additional upper level coursework: at least 8 units		
Major and Distributed Minor Courses Total (minimum): 15 units		

*Note that it is possible to do a Minor from another department. In such case, that department's requirements for the minor must be followed. Typically, this involves a minimum of 9 units (graded) from that department.

Other Courses Required

Journal Club	Group Meeting	Seminar	Other	Total units
MCB 695a 1 credit/semester	BIOC 695a 1 credit/semester (After joining a research group)	BIOC 696d 1 credit/semester	595c College Teaching (Fall I and Spring I), 2 credits Note: the second semester can be substituted with the MCB ethics course	
Maximum counted toward degree: 10	Maximum counted toward degree: 10	Maximum counted toward degree: 10	Maximum counted toward degree: 2	Ungraded total: 24